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NPIC/TSG/RED-208-70
24 August 1970

MEMORANDUM FOR: Chief, Planning, Programming & Budgeting Staff, NPIC
THROUGH : Chief, Technical Services Group, NPIC
SUBJECT : Possible [] FY-72 R&D Budget Cut

1. On the basis of the subject an immediate analysis of the impact has been made, a rationale for the redistribution of funds devised, and a tabulation of the consequent revised FY-72 R&D Budget has been compiled. A copy of this tabulation is attached.

2. The following statements will very briefly describe the anticipated impact of such a cut and the rationale for the attached categorical redistribution of funds.

General Philosophy. Our approach assumes that this cut is not so drastic as to require a total reconfiguration of the R&D Program.

I. Imagery Interpretation Research. []

Human Factors studies will be limited to matters of immediate consequence in areas of personnel training, modification of FI procedures, equipment design, and adaptations of personnel to new exploitation systems. Long range objectives in this area will be deferred. In the latter regard the proposed budget cut will have an adverse affect on the planned thorough investigation on human engineering aspects of exploiting color targetry. Additive Info studies will still be programmed at the [] level in anticipation of improving special purpose acquisition systems such as color, []

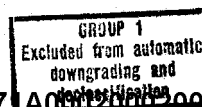
II. Imagery Information Technology. []

Present indications are that our previous planning figure of [] is low. Therefore, this cut is more severe than it appears. The need for and trend toward computer assisted information handling and display continues to increase. This is especially true because of the anticipated impact of the large volume of [] Imagery and the NPIC T/O ceiling situation. This reduction in funds will limit our efforts primarily to collateral material handling and limited continued activity in the automated editing and graphic areas.

Declass Review by NIMA/DOD

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III. Image Analysis and Manipulation. []

This reduction will have its impact on both the Image Quality Evaluation and Image Enhancement efforts presently underway. In the case of the former the color imagery evaluation will be necessarily curtailed in order to obtain the desired objective criteria information for black & white imagery. Relative to image enhancement it was expected to operationally analyze the various enhancement techniques in its time frame. This fund cut most likely will result in a time extension of this investigation.

IV. Image Interpretation Instruments. []

V. Reproduction. []

VI. Maintenance. []

VII. Test and Evaluation. []

The budget reduction in this area will mean that the T&E group at NPIC will have less capability to perform acceptance tests and maintain sophisticated optical systems. They will also have little capability of performing the aforementioned functions on color, or unconventional reproduction systems such as Cry-silver. This will mean that outside contractors must be used to perform certain of these tasks with the attendant high cost.

VIII. EOI. []

This cut assumes that there will not be a requirement for NPIC to perform extensive R&D on unique EOI equipment in this time frame. The need for an extensive EOI exploitation system development effort is still apparent. This reduction will just stretch out time required for this activity. If the NPIC responsibility level in this time frame should change, then a budgetary realigner would be necessary in order to accomplish the required equipment developments.

[]
Chief, Research & Engineering Division,
NPIC/T&E

Attachment

As stated above

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2 - NPIC/T&E/RED

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Attachment

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Research & Engineering Division, TSG
FY-72 R&D BUDGET

24 August 1970

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Proposed ☐ Cut by Category

Category

- I. Imagery Interpretation Research
- II. Imagery Information
- III. Image Analysis and Manipulation
- IV. Image Interpretation Instruments
- V. Reproduction
- VI. Mensuration
- VII. Test and Evaluation
- VIII. Electro Optical Imagery
- TOTAL

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